

Sheet 1 of 10

Form PTO-1449 (Modified)

Atty. Docket No.
27/281Application No.
10/577,858INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Shlomo Ruschin et alFiling Date:
28-Apr-2006

Group Art Unit:

U.S. PATENT DOCUMENTS

	EX. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AA		2002/0048289	Apr 2002	Atanackovic et al.			
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FOREIGN PATENT DOCUMENTS

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							YES	NO
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM		Alexander Torchigin and Sergey Torchigin, "One dimensional inhomogeneous photonic bandgap structures based on tapered fibers." J. Opt. A: Pure Appl. Opt. (2002) 274-282.22 (March 2002 (22.03.2002)
AN		W. Both, R. Rimpler. "Effect of Homogeneous Stress and Temperature Distribution in A Laser Diode on the Pulsation" pp. 330-332. 5 NOV 1990 (05.10.1990)
AO		Pierre Muret and Christopher Saby. "Band Bending, electronic affinity and density of states at several (100) surfaces of a boron-doped homoepitaxial Diamond Thin Films", p. 1-7. 30 Sept 2003

EXAMINER

DATE CONSIDERED

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YES	NO								
BJ									
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
BM		Mark Csele Fundamentals of Light Sources and Lasers. Copyright 2004 John Wiley & Sons, Inc. pp. 117-158, 2004							
BN		"Temperature Dependence of the Indirect Energy Gap in Crystalline Silicon" V. Alex, S.Finkbeiner, J. Weber, J. Appl. Phys. 79, p 6943 (1996)							
BO		"Gaining Light From Silicon," Leigh Canham; Nature, , Vol. 408, pp 411-412 (2000)							
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
CM		"Infrared to Visible Up-Conversion Using GaP Light-Emitting Diodes" W. Eisfeld, U. Werling, and W. Prettl, Appl. Physics Lett. Vol 42, pp. 276-278 (9183)					
CN		"Optical Absorption Coefficient of Silicon et al" ; G.E. Jellison. Kr. Lowndes. D.H. Lowndes, Appl. Phys. Lett. Vol. 47; p 594 (1982)					
CO		"Gasdynamic Lasers" S.A. Losev, (Springer-Verlag Berlin, 1981)					
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DM		"Applied Physics Letter" R. Normandin, D.C. Houghton, M. Simard-Normandin, and Y. Zhang. Canadian Journal of Phys. 66, 833 (1988)					
DN		L. Pavesi, Proceeding of SPIE – Vol. 4997, 206-220 (2003) ' A Review of Various Approaches to Silicon Laser"					
DO		Book by J.F. Ready, "Effect of High-Power Laser Radiation" (Academic Press, 1971)					
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EM		‘Modulation of Light by Light in Silicon-on-Insulator Waveguides’ ; Appl. Physics Lett. Vol. 83. No 25, pp 5151-5153 (2003); S. Stepanov and S. Ruschin					
EN		Book by : S.M. Sze, “Physics of Semiconductor Devices, 2 nd Ed.) (New York: Wiley 1981)					
EO		Optical Gain in Material With Indirect Transitions”; T. Trupke, M.A. Green and P.Wurfel; Journal of Applied Physics Vol 93, No. 11, PP. 9058-9061 (2003)					
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FM		"Influence of pn Junction Formation et al." Physical Review B, Vol 64, 132202-1---033202-4 (2001), by B.J. Pawlak and N.Q. Vinh, T. Gregorkiewicz and K. Thonke					
FN		"Generation, Amplification and Detection of Infra and Optical et al." N.G. Basov, O.N. Krokhin and Yu M. Popv, Sov Phys. Vol 3, No. 5 JETP 13, 845 (1961)					
FO		"Stimulated Raman Scattering in Silicon Waveguides" , R. Claps, D. Dimitropoulos, B. Jalali,, Electron. Lett. 38,1352 (2002)					
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
GM		"Coefficient Determination Related to Optical Gain et al." ; Hak-Seung Han, Se-Young Seo, Shin JH, Namkyoo Part, Appl. Phys. Lett. Vol. 81, No. 20, 3720-3722 (2002)					
GN		"Nanosecond Laser Amplification Via Degenerate Multiwave Mixing et al." I.C. Khoo, R. Normandin, Appl. Phys. Lett Vol. 52, p. 525 (1988)					
GO		"Photoluminescence From Gold Centre in Silicon" J. Mazzaschi , J.C. Brabant, B. Brousseau, J. Barran, J. Brousseau, F. Voillot and P. Bacuvier, Solid State Communications, Vol 39, Issue 10, pp. 1091-1092 (1981)					
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HM		"Light-Induced Radiative Recombination Centers et al.", J.I. Pankove and J.E. Berkeyheiser, Appl. Phys. Rev. B, Vol. 37(8), pp 705-706 (1980)					
HN		"Radiation Damage and Defects in Semiconductors: proceedings of the International Conference Organized by the Institute of Physics, held at the Univ. of Reading (1972) ; Author: Whitehouse, J.E.					
HO		"Dislocation -Related Photoluminescence in Silicon," R. Sauer, J. Weber, J. Stolz. E.R. Webek, K-H Kusters, and H.Alexander, Appl. Phys. A, Vol 36, No. 1, pp. 1-13 (1985)					
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IM		"Silicon Temperature Measurement by Infrared Absorption et al." J.C. Strum , C.M. Reeves, IEEE Trans. On Electron Devices Vol. 39, No. 1, page 81 (1992)					
IN		"Emissivity of Silicon at Elevated Temp." , P.J. Timans, J. Appl. Phys. , Vol 74 (10) , p. 6353-6364 (1993)					
IO		"Electrical and Optical Properties of Gold-Doped n-type Silicon", H. Weman, A. Henry, T. Begum, B. Monemar, O.O. Awadelkarim and J.L. Lindstrom, J. Appl. Phys. Vol. 65 (1) pp. 137-145 (1989)					
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JM		Atanackovic, B. Petar, Marshall R. Larry; "Devices with Optical Gain in Silicon" See US Patent Application 2002/0048289					
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